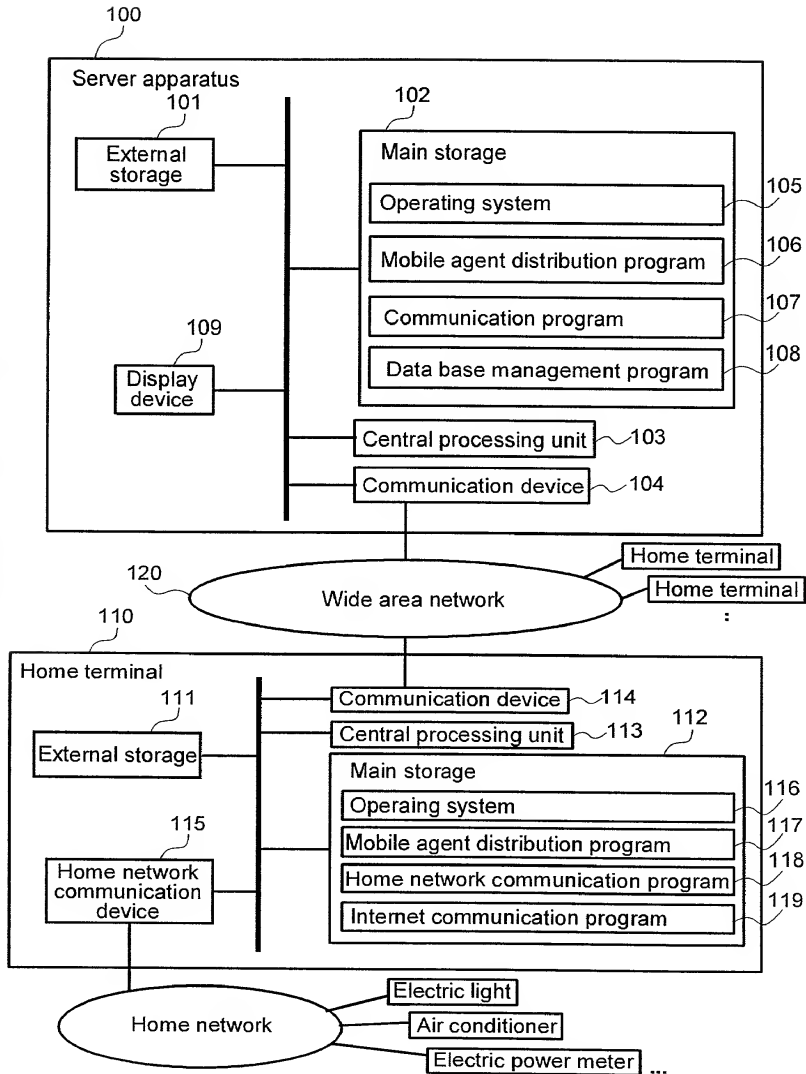


# FIG.1



# FIG.2

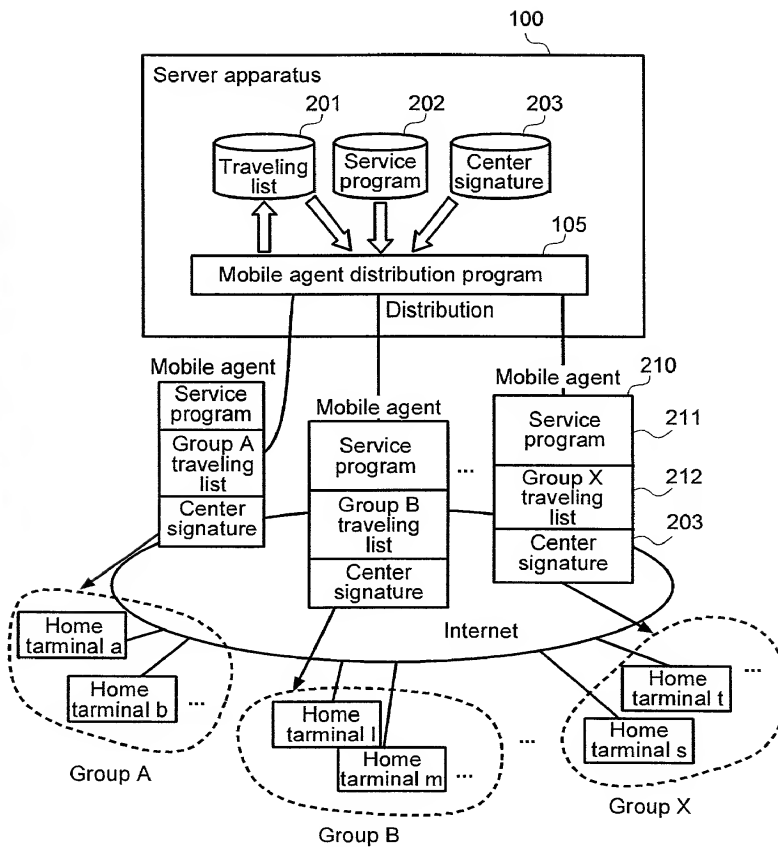
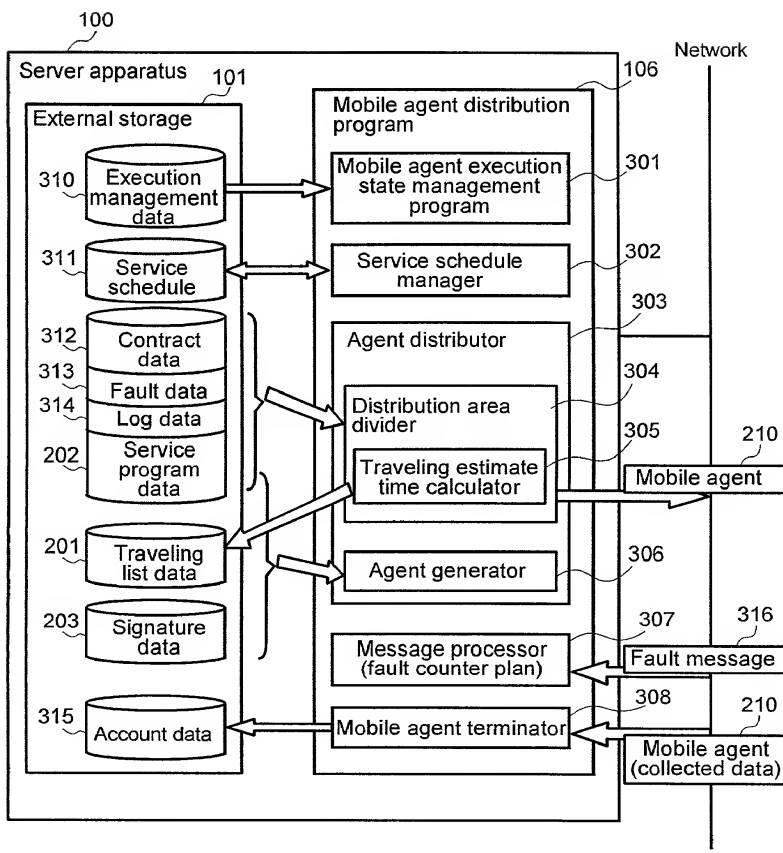
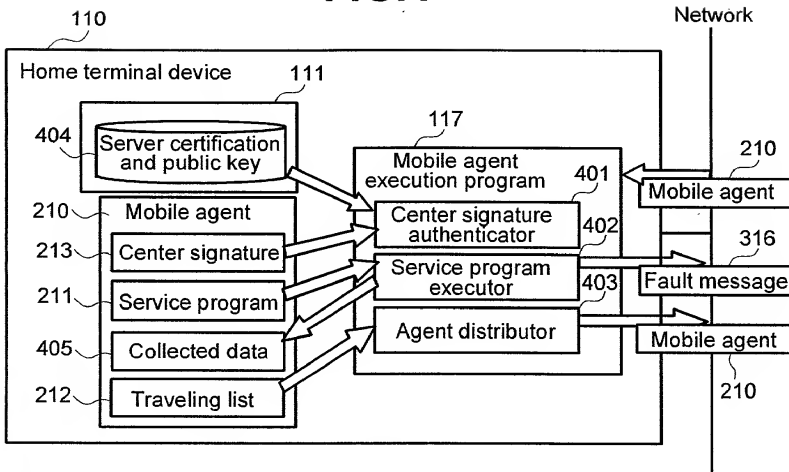


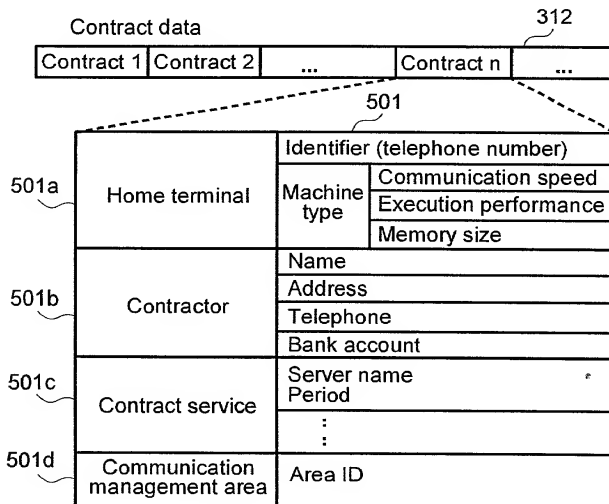
FIG.3



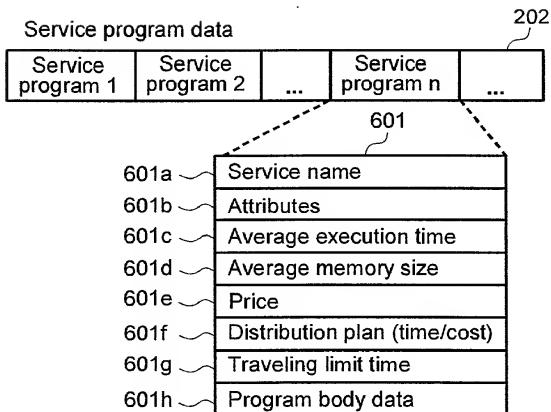
# FIG.4



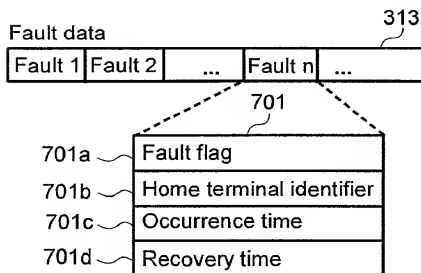
# FIG.5



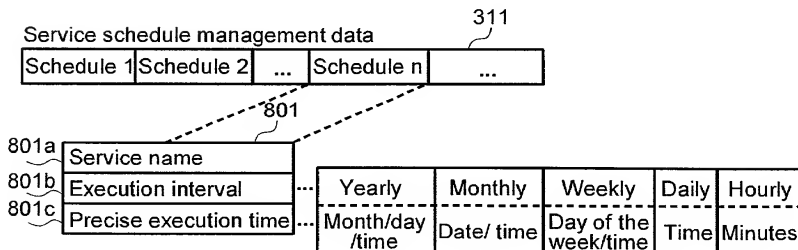
# FIG.6



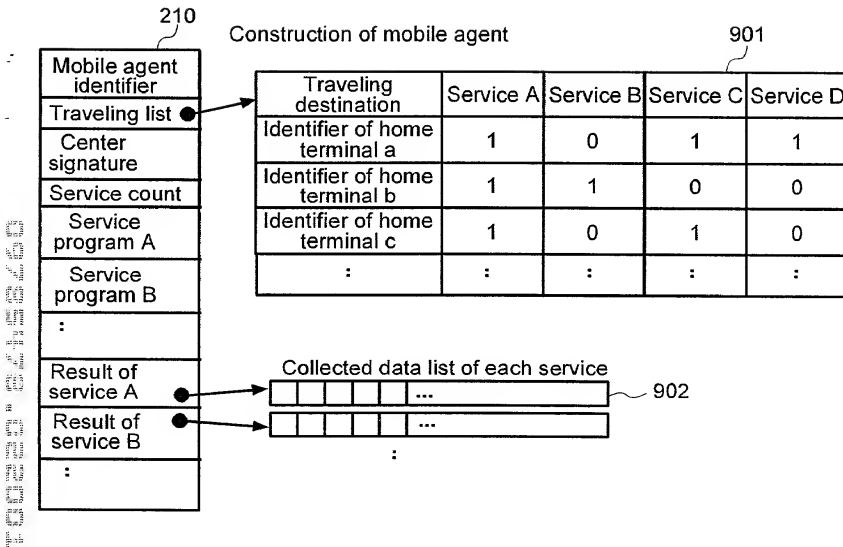
# FIG.7



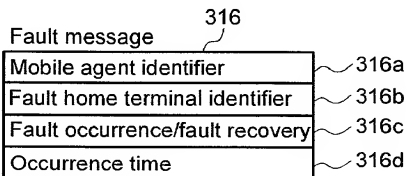
# FIG.8



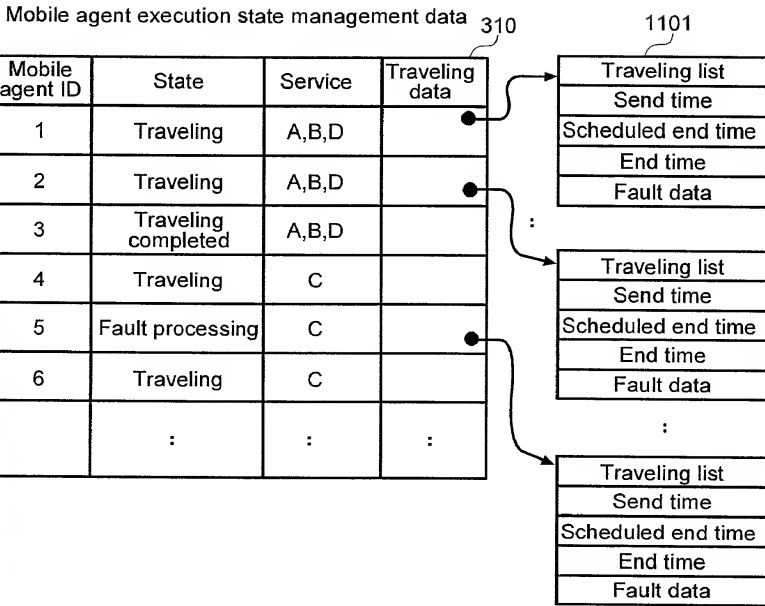
# FIG.9



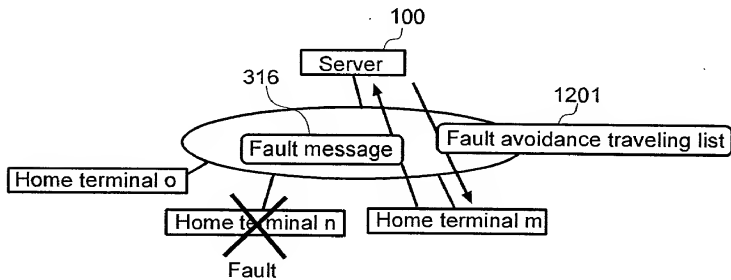
# FIG.10



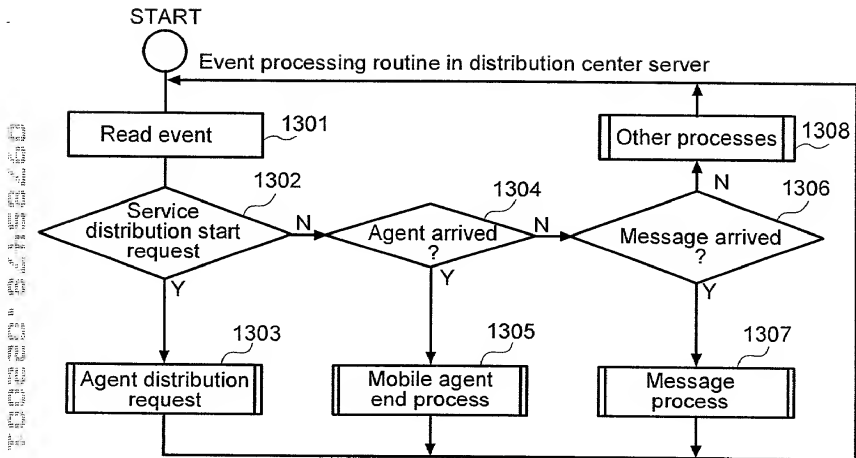
# FIG.11



# FIG.12

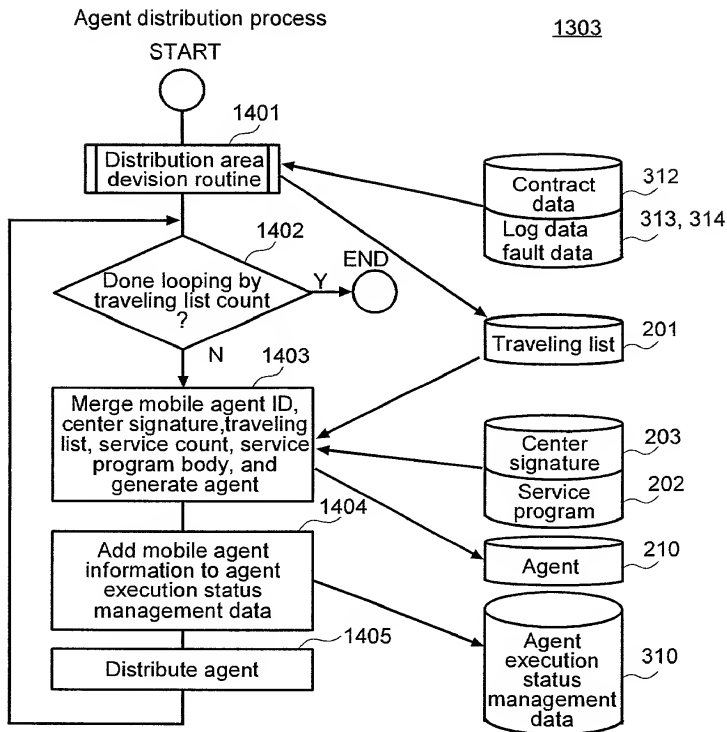


**FIG.13**



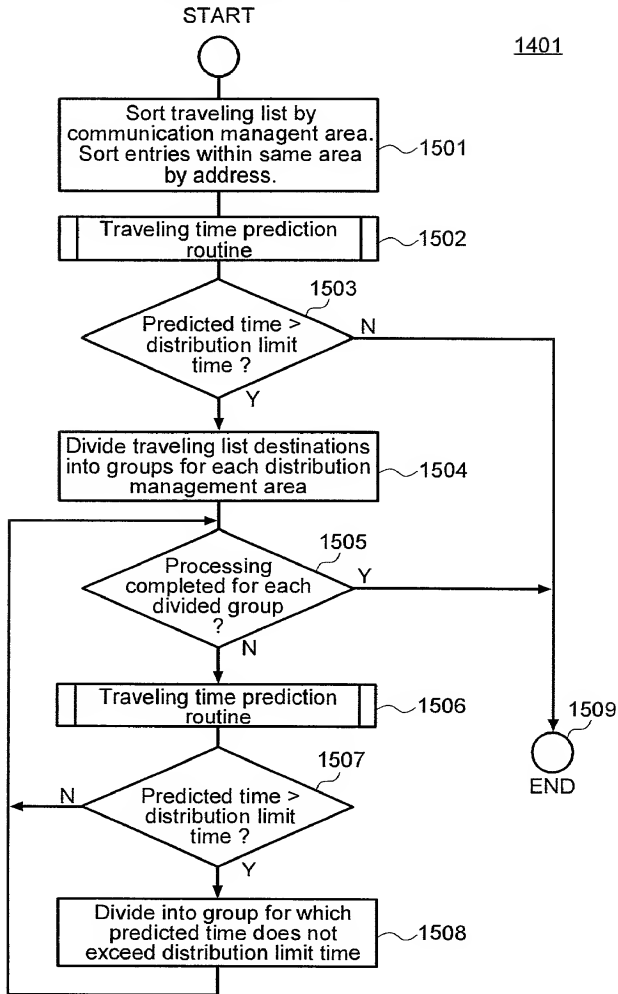


# FIG.14



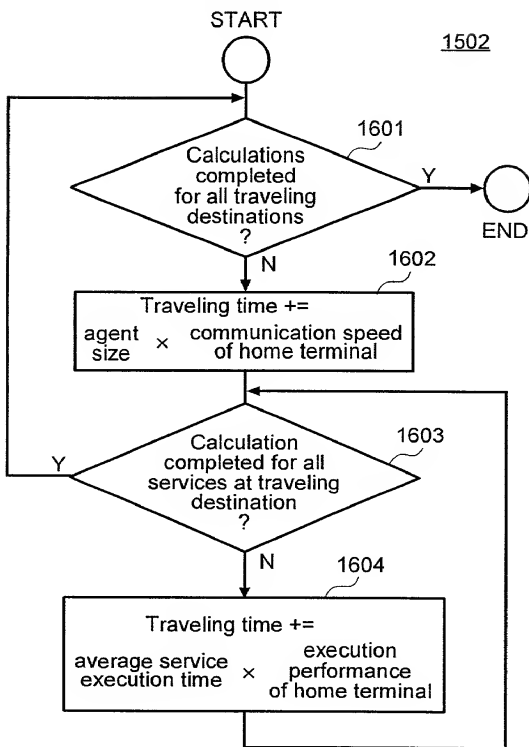
# FIG.15

Distribution area division routine



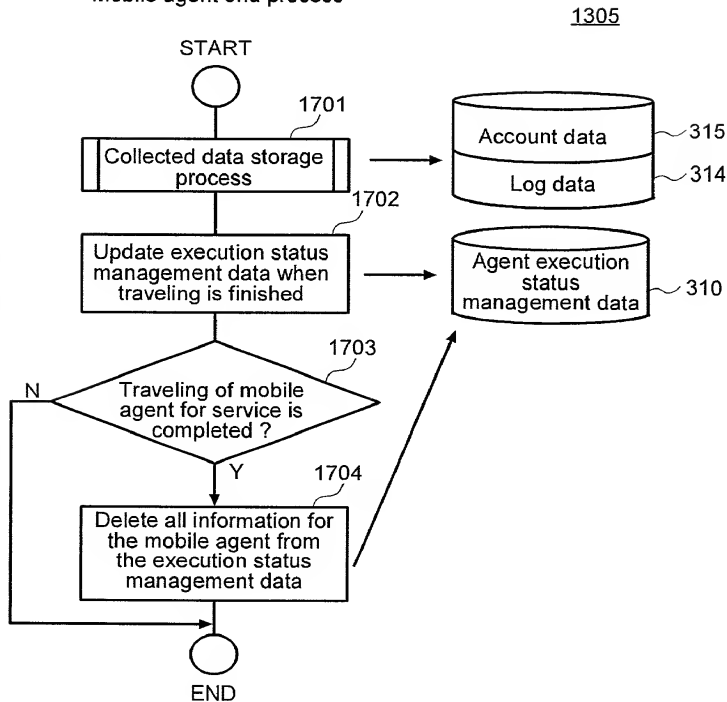
# FIG.16

Traveling time prediction routine

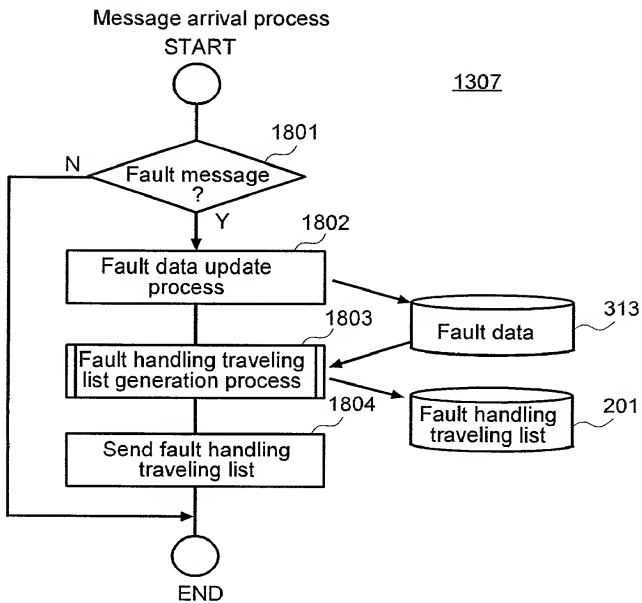


**FIG.17**

Mobile agent end process



**FIG.18**



# FIG.19

Service schedule managemet routine in server

302

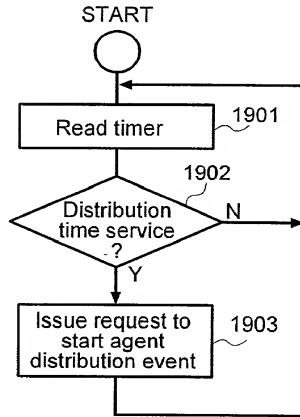
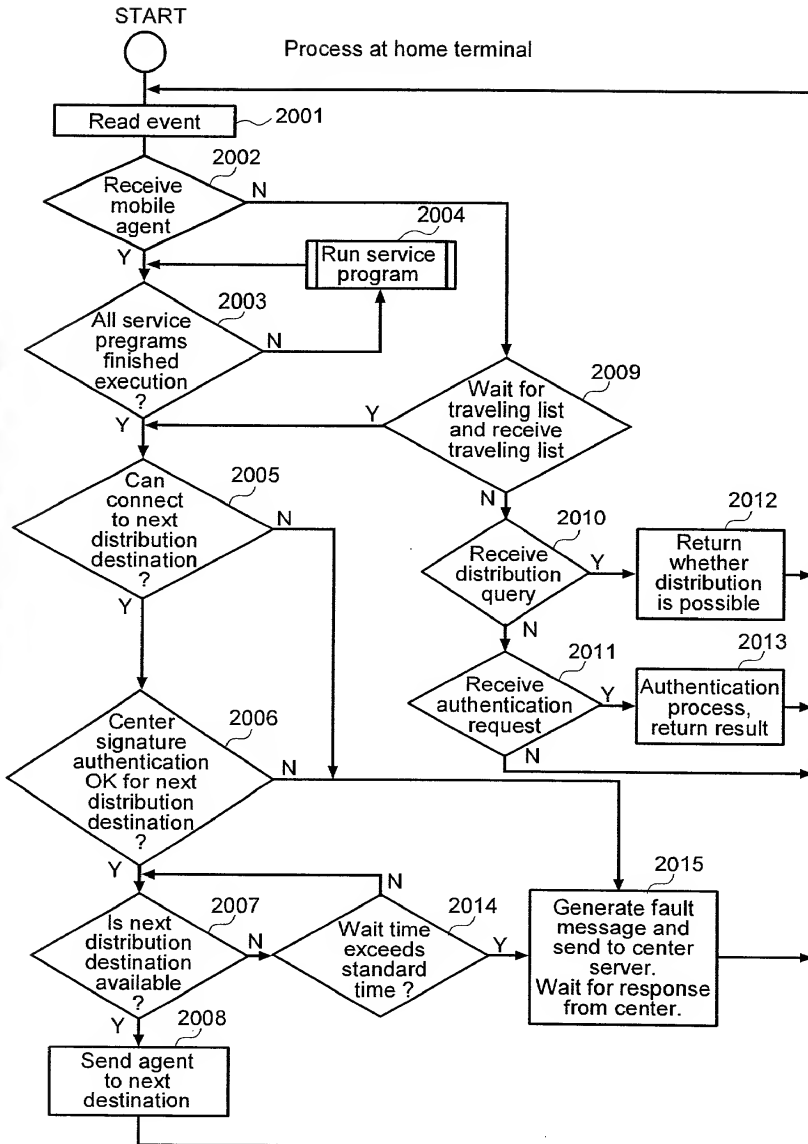
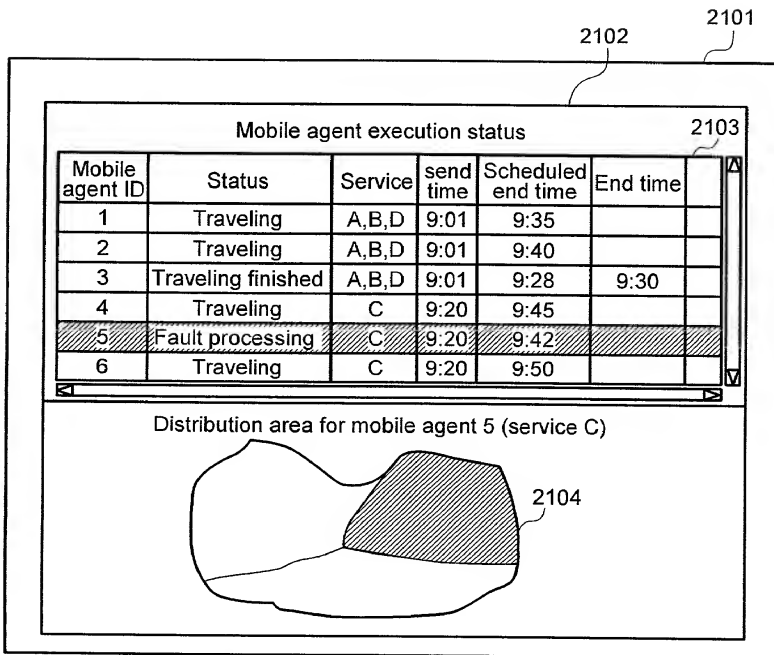


FIG.20

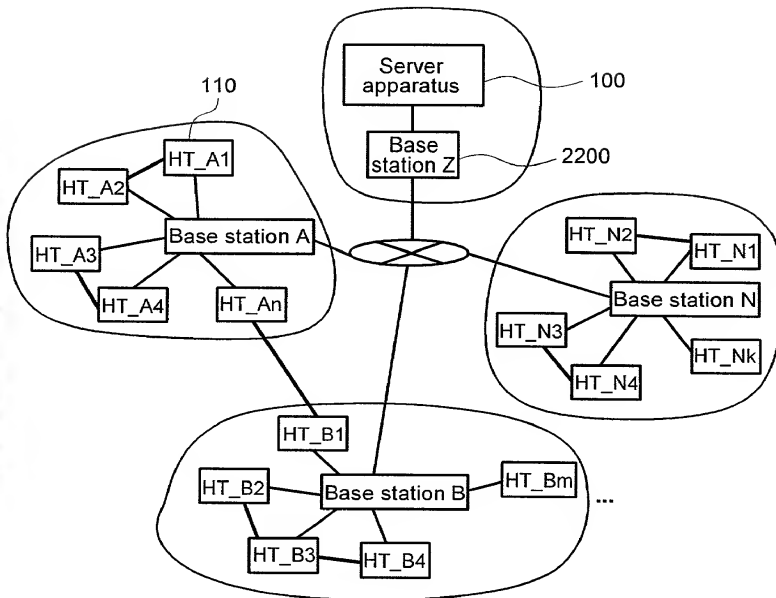


# FIG.21



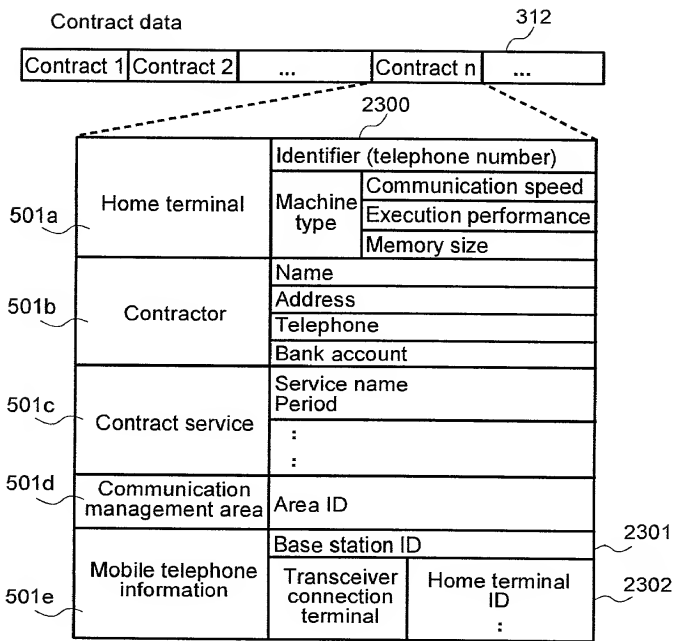


**FIG.22**



HT= home terminal

FIG.23



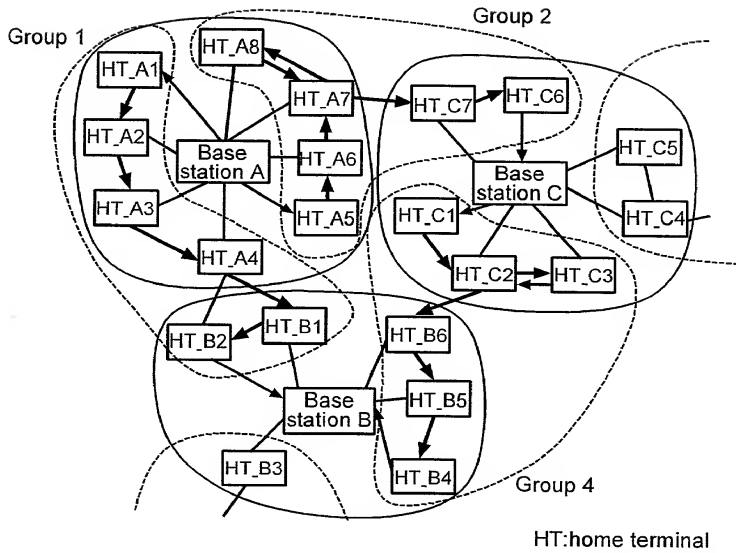
# FIG.24

Transceiver mode connection group table

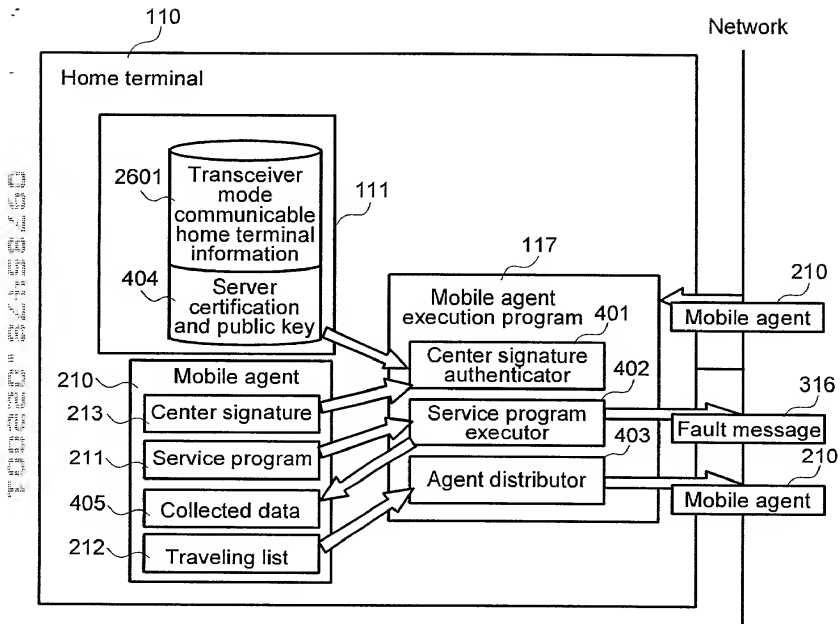
Group	home terminal list	Base station
1	HT_A1	A
	HT_A2	A
	HT_A3	A
	HT_A4	A
	HT_B1	B
	HT_B2	B
2	HT_A5	A
	HT_A6	A
	HT_A7	A
	HT_A8	A
	HT_C7	C
	HT_C6	C
3	HT_B3 :	B
4	HT_B4	B
	HT_B5	B
	HT_B6	B
	HT_C2	C
	HT_C1	C
	HT_C3	C
5	HT_C4	C
	HT_C5	C
:	:	:

HT= home terminal

**FIG.25**



# FIG.26



# FIG.27

Distribution area dividing process

START

2701

304

Divide traveling destinations into transceiver mode connection groups.  
Terminals not going in the groups are sorted by communication management area.  
Entries in the same area are sorted by area.

Overall traveling time prediction process 2702

Predicted time > distribution limit time? 2703

N

Y

Have all transceiver connection groups been processed? 2704

Y

Traveling time prediction process for all transceiver mode connection groups 2705

Overall predicted traveling time for terminals not in group > distribution limit time? 2707

N

Y

Join groups so that the total predicted time for groups does not exceed the distribution limit time 2706

Divide traveling destinations for all terminals not in group into groups by communication management areas 2708

Processing completed for all divided groups? 2709

Y

N

Traveling time prediction process 2710

Predicted time > distribution limit time? 2711

N

Y

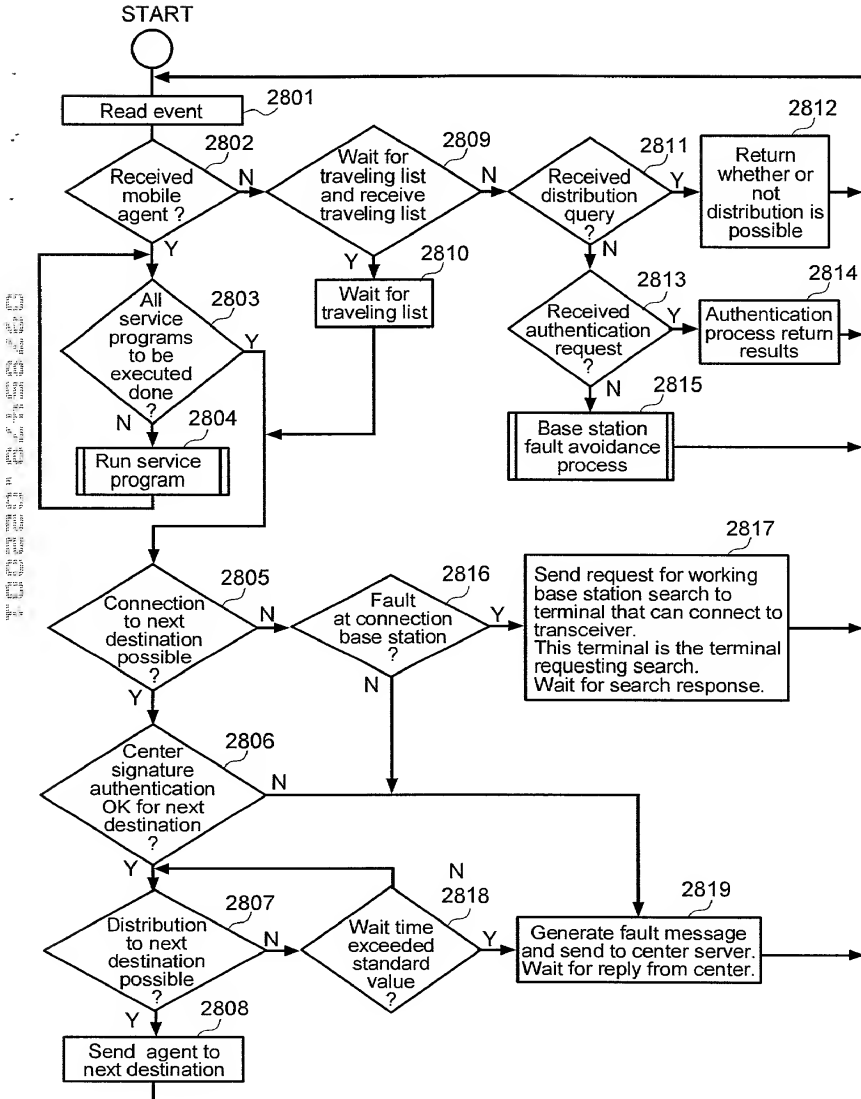
Divide entries into group of which predicted time does not exceed distribution limit time 2712

END

FIG. 27 is a flowchart illustrating a distribution area dividing process. The process starts at a START node (2701) and proceeds to a process block (2702) for overall traveling time prediction. A decision diamond (2703) checks if the predicted time is greater than the distribution limit time. If 'N' (No), the process proceeds to the END node. If 'Y' (Yes), a decision diamond (2704) checks if all transceiver connection groups have been processed. If 'Y', the process proceeds to a decision diamond (2707) checking if the overall predicted traveling time for terminals not in the group is greater than the distribution limit time. If 'N', the process proceeds to the END node. If 'Y', a process block (2705) performs a traveling time prediction for all transceiver mode connection groups. This is followed by a process block (2706) to join groups so that the total predicted time does not exceed the distribution limit time. Then, a process block (2708) divides traveling destinations for all terminals not in the group into groups by communication management areas. A decision diamond (2709) checks if processing is completed for all divided groups. If 'Y', the process proceeds to the END node. If 'N', a process block (2710) performs a traveling time prediction. A decision diamond (2711) checks if the predicted time is greater than the distribution limit time. If 'N', the process proceeds to the END node. If 'Y', a process block (2712) divides entries into a group of which predicted time does not exceed the distribution limit time, and the process loops back to the decision diamond (2707).

# FIG.28

Process at home terminal



# FIG.29

Base station fault avoidance process

2815

